QC-ABSTRACT

Name of Work: - Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests as per frequency	Tests Results
1	Materials	–	1	1	Pass
2	TMT	3.02 MT	1	1	Pass
3	M25	43.09 Cum	4	4	Pass
4	Precast Slab 250mm	54.00 Sqm	1	1	Pass
5	CPVC Pipe 50mm Dia	240.00 Mtrs.	1	1	Pass
		Cubes	0-5 m^3	1Set	
			6-15 m^3	2Set	
			16-30 m^3	3Set	
			31-50 m^3	4Set	
			Add 1set for every 50 Cum		

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 13.04.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri. Madhava Reddy, Contractor, Bangalore.**
NAME OF THE WORK	:	Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE	:	Mar - 2023
DATE OF TESTING	:	11.04.2023 to 13.04.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	126 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	334 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Date : 17.04.2023

Job No.: CH/BBMP/MR/W.No.12/2023-24

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Madhava Reddy, Contractor, Bangalore.

Name of Work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Date of Testing : 17.04.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000.00**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0.00	0.00	0.00	100.00	100
40	185.00	1.23	1.23	98.77	95-100
20	8236.00	54.91	56.14	43.86	30-70
10	3250.00	21.67	77.81	22.19	10-35
4.75	2825.00	18.83	96.64	3.36	0-5

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Date : 17.04.2023

Job No.: CH/BBMP/MR/W.No.12/2023-24

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of Work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Date of Testing : 17.04.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000.00**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0.00	0.00	0.00	100.00	100
20	194.00	3.88	3.88	96.12	95-100
10	2602.50	52.05	55.93	44.07	25-55
4.75	2045.00	40.90	96.83	3.17	0-10

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K'sreejan K'sreejan

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date : 17.04.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of Work : Providing Chambers to existing Borewell and Conscaling to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Date of Testing : 17.04.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000.00**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0.00	0.00	0.00	100.00	100
4.75	88.00	8.80	8.80	91.20	90-100
2.36	140.00	14.00	22.80	77.20	75-100
1.18	188.00	18.80	41.60	58.40	55-90
600 Micron	159.00	15.90	57.50	42.50	35-59
300 Micron	210.00	21.00	78.50	21.50	8-30
150 Micron	146.00	14.60	93.10	6.90	0-10

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Date : 17.04.2023

Job No.: CH/BBMP/MR/W.No.12/2023-24

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of Work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Date of Testing : 17.04.2023

Material : Masonry Sand

Total wt. of aggregates in gms = **1000.00**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0.00	0.00	0.00	100.00	100
2.36	24.00	2.40	2.40	97.60	90-100
1.18	39.00	3.90	6.30	93.70	70-100
600 Micron	92.00	9.20	15.50	84.50	40-100
300 Micron	257.00	25.70	41.20	58.80	5-70
150 Micron	480.00	48.00	89.20	10.80	0-15

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Date : 21.04.2023

No.: CH/BBMP/MR/W.No.12/2023-24

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

AGENCY : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of Work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Steel Dia/Length : 10mm, 12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 21.04.2023

SI. No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.619	562	651	1.16	14.50
2	TMT	12	0.89	575	660	1.15	14.50

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Executive

Executive

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

S.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

REQUIREMENTS AS PER IS: 1786 - 2008 Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars - grade	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe 415S	415	540	1.25	20
Fe 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe 500S	500	625	1.25	18
Fe 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10

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Job No.: CH/BBMP/MR/W.No.12/2023-24

Date: 05-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of the work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Sample ID : Cement Concrete for Raft Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl. No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28-Apr-23	5-May-23	8.125	398.60	17.72
2	28-Apr-23	5-May-23	8.155	397.40	17.66
3	28-Apr-23	5-May-23	8.095	396.90	17.64

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Job No.: CH/BBMP/MR/W.No.12/2023-24

Date: 26-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Madhava Reddy, Contractor, Bangalore.**
Name of the work	: Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
Sample ID	: Cement Concrete for Raft Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28-Apr-23	26-May-23	8.175	569.60	25.32
2	28-Apr-23	26-May-23	8.065	578.20	25.70
3	28-Apr-23	26-May-23	8.195	571.90	25.42

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 05-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of the work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Sample ID : Cement Concrete for Raft Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28-Apr-23	5-May-23	8.160	399.20	17.74
2	28-Apr-23	5-May-23	8.075	395.80	17.59
3	28-Apr-23	5-May-23	8.155	396.50	17.62

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 26-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Madhava Reddy, Contractor, Bangalore.**
Name of the work	: Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
Sample ID	: Cement Concrete for Raft Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28-Apr-23	26-May-23	8.105	573.50	25.49
2	28-Apr-23	26-May-23	8.215	585.30	26.01
3	28-Apr-23	26-May-23	8.120	578.50	25.71

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 09-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Madhava Reddy, Contractor, Bangalore.**

Name of the work : Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.

Sample ID : Cement Concrete for Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	2-May-23	9-May-23	8.175	396.30	17.61
2	2-May-23	9-May-23	8.125	401.50	17.84
3	2-May-23	9-May-23	8.075	399.20	17.74

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	
Name of the work	
Sample ID	
Size of cube	
Cross Sectional Area	
Technical Reference	
Grade of Concrete	
Compressive Strength at 28	

Sl. No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1					
2					
3					

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 09-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri. Madhava Reddy, Contractor, Bangalore.**
Name of the work	: Providing Chambers to existing Borewell and Concealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
Sample ID	: Cement Concrete for Wall Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	2-May-23	9-May-23	8.180	396.30	17.61
2	2-May-23	9-May-23	8.040	403.50	17.93
3	2-May-23	9-May-23	8.155	400.80	17.81

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Job No.: CH/BBMP/MR/W.No.12/2023-24 Date: 30-05-2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Madhava Reddy, Contractor, Bangalore.
Name of the work	: Providing Chambers to existing Borewell and Conseling to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
Sample ID	: Cement Concrete for Wall Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}

Compressive Strength as on : 28^{th} day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	2-May-23	30-May-23	8.100	582.30	25.88
2	2-May-23	30-May-23	8.165	573.50	25.49
3	2-May-23	30-May-23	8.080	569.60	25.32

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Job No.: CH/ BBMP/ MK/ W.No.12/2023-24 08.05.2023

TEST REPORT ON CPVC PIPE

Client	**: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Madhava Reddy, Contractor, Bangalore.**
Name of Work	Providing Chambers to existing Borewell and Consealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
Sample Supplied by:	:AGENCY
BIS Code:	IS 13360(Part3/Sec 1):1995 IS 15778:2007
Sample Identification:	CPVC pipe 50mm dia
Date of Testing	08.05.2023

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	51.2	51.3 mm
2	Mean Outside Diameter (mm)	51.2	Min 51.2 mm Max 51.4 mm
3	Outside Diameter at Any Point (mm)	51.5	Min 51.1 mm Max 51.5 mm
4	Density	1525 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Lab No.: CH/BBMP/MR/ W.No.12/ 2023-24 Date: 12.05.2023

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	:	Sri. Madhava Reddy, Contractor, Bangalore.
Name of Work	:	Providing Chambers to existing Borewell and Concealing to Road Surface area in Ward No. 12 Shettyhalli Sub-Division.
No.of Sample Tested	:	03
Date of Testing	:	12.05.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	70.00	107.00	1.696	4118.66	1.53	0.949	62.80	16.32	17.62	16.73	20.91
2	70.00	110.00	1.735	4098.46	1.57	0.954	60.40	15.69	16.95	16.17	20.21
3	70.00	112.00	1.778	4125.04	1.60	0.957	63.10	16.40	17.71	16.94	21.18

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